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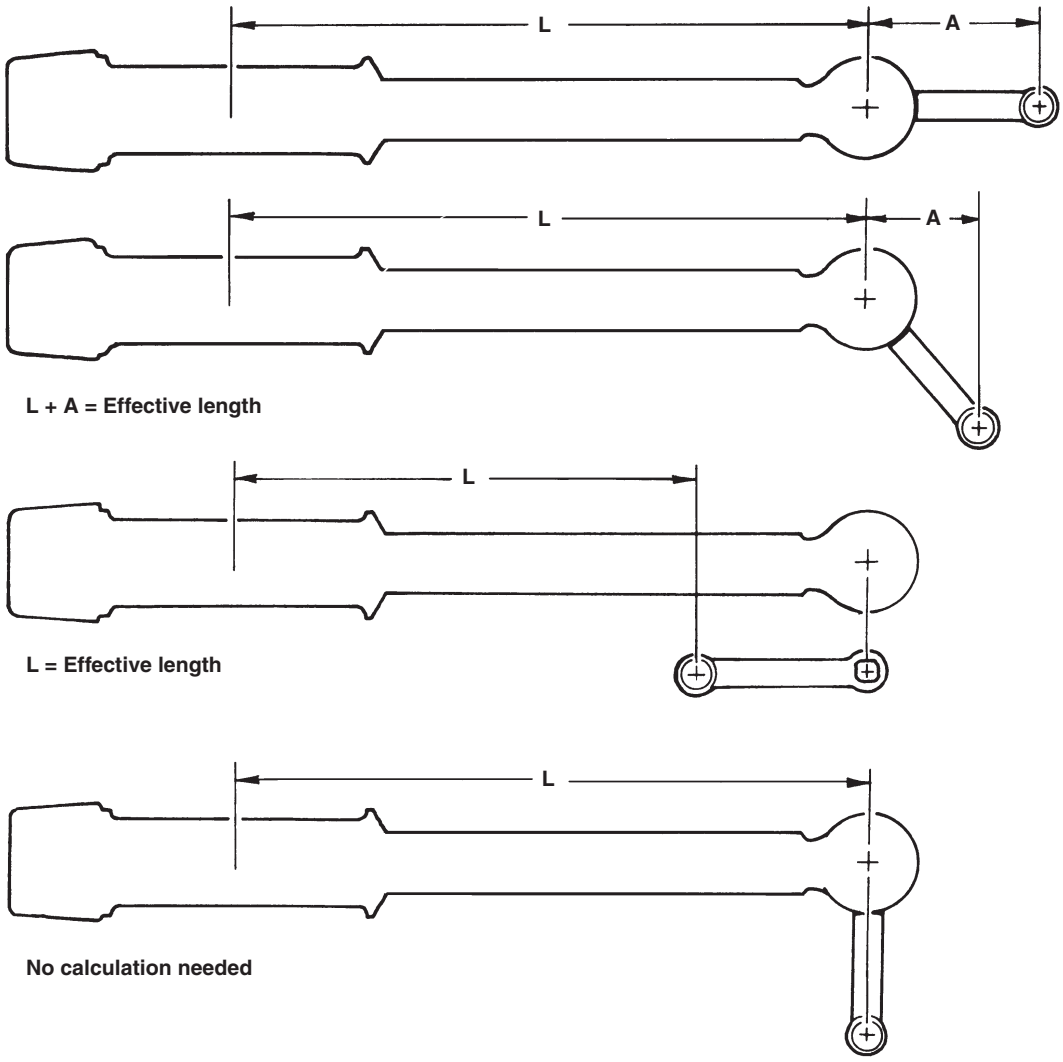
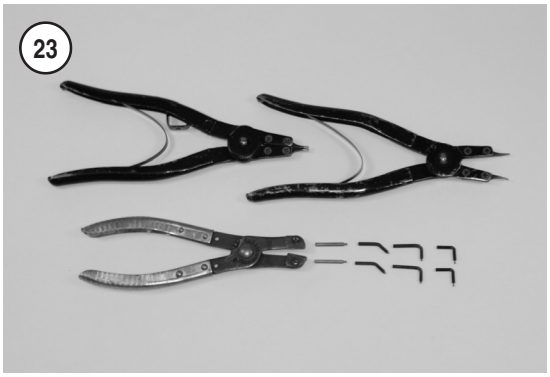
HOW TO MEASURE TORQUE WRENCH EFFECTIVE LENGTH



21

Pliers

Pliers come in a wide range of types and sizes. Pliers are useful for holding, cutting, bending and crimping. Do not use them to turn fasteners. **Figure 21** shows several types of useful pliers. Each design has a specialized function. Slip-joint pliers are general-purpose pliers used for gripping and bending. Diagonal cutting pliers cut wire and can be used to remove cotter pins. Adjustable pliers can be adjusted to hold different size objects. The jaws remain parallel so they grip around objects such as pipe or tubing.



Needlenose pliers are used to hold or bend small objects. Locking pliers (**Figure 22**) are used to hold objects very tightly. They have many uses, ranging from holding two parts together to gripping the end of a broken stud. Use caution when using locking pliers. The sharp jaws will damage the objects they hold.

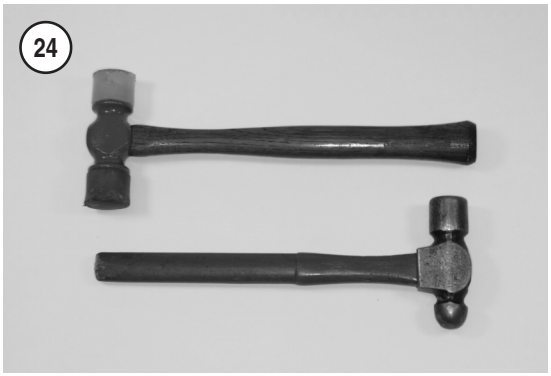
Snap Ring Pliers

Snap ring pliers (**Figure 23**) are specialized pliers with tips that fit into the ends of snap rings to remove and install them.

Snap ring pliers are available with a fixed action (either internal or external) or convertible (one tool works on both internal and external snap rings). They may have fixed tips or interchangeable ones of various sizes and angles. For general use, select a convertible-type pliers with interchangeable tips.

WARNING

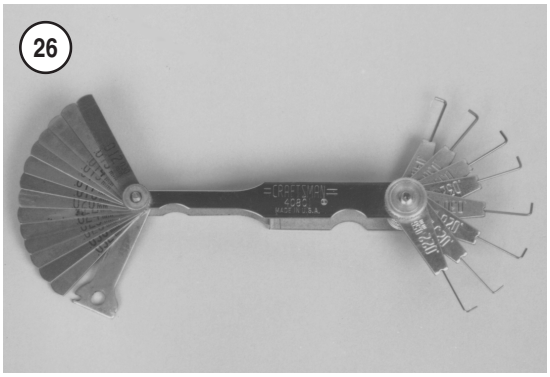
Always wear eye protection when using snap ring pliers. Snap rings can slip and fly off during removal and installation. Also, the snap ring plier tips may break and fly off.



Hammers

Various types of hammers (**Figure 24**) are available to fit a number of applications. A ball-peen hammer is used to strike another tool, such as a punch or chisel. Soft-faced hammers are required when a metal object must be struck without damaging it. *Never* use a metal-faced hammer on engine and suspension components. Damage will occur in most cases.

Always wear eye protection when using hammers. Make sure the hammer face is in good condition and the handle is not cracked. Select the correct



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